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Patent 2 of 2

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SUMMARY

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**Patent Number(s):**

JP3049692-A ; JP2819312-B2

**Title:**

N-Acetyl lactosamine prepn. - by treating substrate contg. lactose and N-acetyl glucosamine with beta-galactosidase derived from Bacillus circulans

**Patent Assignee Name(s) and Code(s):**

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**Derwent Primary Accession Number:**

1991-106865 [15]

**Abstract:**

N-acetyl lactosamine (I) is prepd. by allowing beta-galactosidase produced by Bacillus circulans to act upon a substrate composition containing lactose and N-acetyl glucosamine to cause galactose transition reaction.

The molar ratio of lactose to N-acetyl glucosamine is 1:1 to 1:5, and both compounds are used in total in an amount 20-70% relative to the whole substrate composition. The beta-galactosidase is added to the composition in an amount of 0.5-5 u/ml. The reaction is conducted at 5-50 deg.C at pH of 4-9 for 2-50 hours. By heating, the reaction is stopped, and the resultant is subjected to column chromatography, gel filtration, liquid high speed chromatography, etc., to recover (I).

ADVANTAGE - The method makes it possible to produce the object compound at high yield.  
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**International Patent Classification:**

C12P-019/26

**Derwent Class:**

D16 (Fermentation industry); E16 (Aliphatics containing N and/or halogen)

**Derwent Manual Code(s):**

D05-C08; E07-A02H

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**Further Application Details:**

JP2819312-B2 Previous Publ. Patent JP3049692

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Patent 2 of 2

◀ PREVIOUS

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